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Frank C. Eisenschenk, Ph.D., Patent Attorney

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INFORMATION DISCLOSURE **STATEMENT** Examining Group 1646 Patent Application Docket No. INN-133 Serial No. 10/563,045

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit

1646

Applicants

Alessandro Moretta, Mariella Della Chiesa

Serial No.

10/563,045

Filed

Conf. No.

December 30, 2005

6062

For

PAN-KIR2DL NK-Receptor Antibodies and Their Use in Diagnostik and

Therapy

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT <u>UNDER 37 C.F.R. §§ 1.97 AND 1.98</u>

Sir:

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The patent application referred to above was filed in the U.S. Patent Office as a national application under 35 U.S.C. § 371. Applicants have been notified that a copy of the International Search Report has been made available in the national stage file as indicated on the Notice of Acceptance of the Application Under 35 USC 371 (Form PCT/DO/EO/903). The Notice does not indicate whether copies of the references cited in the International Search Report were received by the Patent Office. Therefore, copies of the references cited in the International Search Report are enclosed for the Examiner's convenience. However, Applicants have not submitted copies of the U.S. patents cited on attached Form PTO/SB/08 pursuant to 37 C.F.R. 1.98(a)(2)(ii). In accordance with 37 C.F.R. § 1.56, Applicants hereby request that the references cited in the International Search 2

Report and listed on the attached form PTO/SB/08 be made of record and considered in the examination of the subject application.

Applicants have also listed on form PTO/SB/08 numerous references which have not been cited in the International Search Report. Copies of these documents are enclosed with this Information Disclosure Statement. Applicants respectfully request that these references be made of record and considered in the examination of the subject application.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,

Frank C. Eisenschenk, Ph.D.

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Attachments: Form PTO/SB/08; copies of cited references.



PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
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	Substitute for forr	n 1449A/PTO			Complete if Known		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Filing Date	December 30, 2005	
1	SIAIEME	INI BY APPI	_16/	ANI	First Named Inventor	Alessandro Moretta	
	(us	se as many sheets a	as nec	essary)	Art Unit	1646	
					Examiner Name		
	Sheet	1	of	3	Attorney Docket Number	INN-133	

			U.S. PATENT DO	DCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	US-6,524,583	02-25-2003	THORPE et al.	All
	U2	US-5,650,491	07-22-1997	REED et al.	All
	U3	US-5,539,094	07-23-1996	REED et al.	All
	U4	US-5,660,827	08-26-1997	THORPE et al.	All
	U5	US-4,816,567	03-28-1989	CABILLY et al.	All .
_	U6	US-5,583,034	12-10-1996	GREEN et al.	All
	U7	US-			
	U8	US-			
	U9	US-			

,	FOREIGN PATENT DOCUMENTS							
	1	Foreign Patent Document	Publication Date MM-DD-YYYY		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т		
Examiner Initials*	Cite No. 1	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)		Name of Patentee or Applicant of Cited Document		T ⁶		
	F1	WO 98/16551 A2	04-23-1998	GENENTECH, INC.	All			
	F2							
	F3							
	F4							
	F5							
	F6							
	F7							

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Complete if Known Substitute for form 1449B/PTO 10/563,045 **Application Number** INFORMATION DISCLOSURE December 30, 2005 **Filing Date** STATEMENT BY APPLICANT Alessandro Moretta First Named Inventor 1646 **Group Art Unit** (use as many sheets as necessary) **Examiner Name** Attorney Docket Number INN-133 of Sheet 3

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		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	item monk magazine tolintal serial symbolicity, catalog, ctc.), gate, pagets), volume 1880e							
	BARTEN, R. et al. "Divergent and convergent evolution of NK-cell receptors", TRENDS in Immunology, January 2001, pp. 52-57, Vol. 22, No. 1.							
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	R3	BOYINGTON, J. C. et al. "Crystal Structure of an NK Cell Immunoglobulin-like Receptor in Complex with its Class I MHC Ligand", <i>Nature</i> , June 1, 2000, pp. 537-543, Vol. 405.						
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	R6	GAUTHIER, L. <i>et al.</i> "μ-Surrogate Light Chain Physicochemical Interactions of the Human PreB Cell Receptor: Implications for V _H Repertoire Selection and Cell Signaling at the PreB Cell Stage", <i>The Journal of Immunology</i> , 1999, pp. 41-50, Vol. 162.						
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	R8	MAENAKA, K. et al. "Crystal Structure of the Human p58 Killer Cell Inhibitory Receptor (KIR2DL3) Specific for HLA-Cw3-Related MHC Class I", Structure, April 1999, pp. 391-398, Vol. 7, No. 4.						
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	R12	MORETTA, A. et al. "P58 Molecules as Putative Receptors for Major Histocompatibility Complex (MHC) Class I Molecules in Human Natural Killer (NK) Cells. Anti-p58 Antibodies Reconstitute Lysis of MHC Class I-protected Cells in NK Clones Displaying Different Specificities", J. Exp. Med., August 1993, pp. 597-604, Vol. 178.						

Examiner	Date
Signature	Considered

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		for form 1449B/PTO	001	OCUDE	Application Number	10/563,045
		RMATION DI			Filing Date	December 30, 2005
	STAT	EMENT BY	APF	LICANT	First Named Inventor	Alessandro Moretta
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	(05)	e as many sneets a	12 1160	essary)	Examiner Name	
S	heet	3	of	3	Attorney Docket Number	INN-133

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. 1 Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	R13	MORETTA, A. et al. "Receptors for HLA Class-I Molecules in Human Natural Killer Cells", Annu. Rev. Immunol., 1996, pp. 619-648, Vol. 14.			
	R14	PENDE, D. et al. "Identification and Molecular Characterization of NKp30, a Novel Triggering Receptor Involved in Natural Cytotoxicity Mediated by Human Natural Killer Cells", J. Exp. Med., November 15, 1999, pp. 1505-1516, Vol. 190, No. 10.			
	R15	RUGGERI, L. <i>et al.</i> "Effectiveness of Donor Natural Killer Cell Alloreactivity in Mismatched Hematopoietic Transplants", <i>Science</i> , March 15, 2002, pp 2097-2100, Vol. 295.			
	R16	SAUNAL, H. et al. "Mapping of Viral Conformational Epitopes Using Biosensor Measurements", Journal of Immunological Methods, 1995, pp. 33-41, Vol. 183.			
	R17	SAULQUIN, X. et al. "Crystal Structure of the Human Natural Killer Cell Activating Receptor KIR2DS2 (CD158j)", J. Exp. Med., April 7, 2003, pp. 933-938, Vol. 197, No. 7.			
	R18	SHIN, JS. et al. "Monoclonal Antibodies with Various Reactivity to p58 Killer Inhibitory Receptors", Hybridoma, 1999, pp. 521-527, Vol. 18, No. 6			
	R19	SPAGGIARI, G. M. et al. "Soluble HLA Class I Induces NK Cell Apoptosis Upon the Engagement of Killer-Activating HLA Class I Receptors through FasL-Fas Interaction", BLOOD, December 1, 2002, pp. 4098-4107, Vol. 100, No. 12.			
	R20	WAGTMANN, N. et al. "Killer Cell Inhibitory Receptors Specific for HLA-C and HLA-B Identified by Direct Binding and by Functional Transfer", Immunity, December 1995, pp. 801-809, Vol. 3.			
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	R23				
	R24				

Examiner	Date
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